

**102617-ELE-1COS-E-2007**  
**Commissioning & Operation Engineer**

Holds B. Sc. and M. Sc. in Electrical Power & Machines Engineering and has over 13 years hands-on experience working in construction, operation and commissioning at Power Plants.

## PERSONAL DATA

Nationality : Egyptian  
Birth Date : 25/04/1985  
Gender : Male  
Marital Status : Married  
Residence : Behira

## EDUCATION

- : B. Sc. in Electrical Power & Machines Engineering, Mansoura University, 2007
- : M. Sc. in Electrical Engineering, Tanta University, 2021

## LANGUAGES

Arabic : Native Language  
English : Very Good

## COMPUTER SKILLS

- : Windows, MS Office (Word, Excel, Power Point), Internet
- : MATLAB/SIMULINK software package
- : ETAP

## TRAINING COURSES AND CERTIFICATIONS

- : Training course for circuit breaker tests and protection devices in El-Atf Power Station.
- : On-shore training of high and medium voltage (500KV / 220KV / 6.3KV) switchyard and switchgear (Nubaria).
- : On-shore training of gas turbine Siemens v94.3A each one produces 250MW (Nubaria).
- : On-shore training of steam turbine operation each one produces 250MW (Nubaria).
- : On-shore training of heat recovery steam generation (HRSG) operation (Nubaria).
- : Training on transformer, switchgear & UPS system in Shoubra El-Kheima Power Plant.

# CHRONOLOGICAL EXPERIENCE RECORD

- Dates** : From Oct. 2008 till now
- Employer** : Middle Delta Electricity Production Company
- Project** : Nubaria Power Station (2250MW)
- Job titles** :
  - Electrical Commissioning Engineer
  - Electrical Operation Engineer
- Job Description** :
  - Commissioning power transformer around 310 MVA:
    - Turns ratio (isa T3000).
    - Insulation resistance (Megger).
    - D.C winding resistance (OMICRON).
    - Excitation current.
    - Oil / winding temperature.
    - Cooling fans operation (stage 1 & stage 2).
    - Buchlez relay (alarm-trip).
  - Commissioning the equipment in (500/220KV) switch yard:
    - Circuit breaker:
      - ❖ Contact resistance (OMICRON CPC100).
      - ❖ Insulation resistance (Megger).
      - ❖ Closing & tripping time (circuit breaker analyzer: Megger).
      - ❖ Close & trip circuit (circuit breaker analyzer: Megger).
    - Disconnecter switch:
      - ❖ Trip & close circuits.
      - ❖ Interlocking circuits.
    - Current transformer:
      - ❖ Insulation resistance (Megger).
      - ❖ Turns ratio (isa T3000).
      - ❖ Saturation test (isa T3000).
      - ❖ Polarity (isa T3000).
    - Voltage transformer:
      - ❖ Turns ratio (isa T3000).
      - ❖ Insulation resistance (Megger).
    - Cables:
      - ❖ Insulation resistance (Meggar).
      - ❖ Continuity.
  - Commissioning the UPS system and battery:
    - Insulation resistance (Meggar) and continuity for cables.
    - Charge and discharge batteries.
    - Measure voltage and density of batteries.
  - Make energizing for transformers in first start.
  - Connect and disconnect for power transformer, tie transformer, OHTL and bus bars from control room and local.
  - Follow the status of all equipment's in switch yard with the national energy control center.
  - Adaptation all transformers voltage by tap changer (on load-off load).
  - Responsible for the safe and efficient operation for the electrical equipment in the station.
  - Immediately deal with mail functioning equipment of abnormal meter readings / equipment performance.
  - Team with the work leader and employees to insure successful operation

for the plant.

- Change the loading & incoming as required from the board and control room.
- Observe and analysis for all alarms on protection cabinets.
- Prepare daily report for energy import and export for loads.
- Make on live wash for all isolators in switch yard.
- Start-up and shutdown of the power plant units include gas turbines (Siemens), steam turbines (Mitsubishi) and HRSG.

**Dates** : From May 2015 till May 2017  
**Employer** : PSP Elsewedy  
**Project** : Mahmodia Power Station (325MW):

- Two Ansaldo gas turbines (2x165MW)
- 6.3KV /400V switchgear
- 220KV GIS switchyard (2 transformers & 4 OHTL)

**Job title** : Electrical Construction, Commissioning & Operation Engineer  
**Job Description** :

- Participate in the erection of electrical equipment (transformer, motor).
- Commissioning the power transformer and motor.
- Commissioning 6.3KV & 400V switch gear.
- Commissioning the UPS system and battery.
- Connect and disconnect the transformers, bus bars and OHTL in GIS.
- Start-up and shutdown of the power plant units include gas turbines (Alstom).

**Dates** : From Aug. 2007 till Sep. 2008  
**Employer** : Siemens Company (ECIE Construction)  
**Project** : Rehabilitation Works at Shoubra El-Kheima Power Station  
**Job title** : Electrical Construction & Commissioning Engineer  
**Job Description** :

- Attended the erection of DCS system.
- Supervision on all the erection and commissioning for AVR, UPS, SYNC and power system.
- Project scheduling, reporting and verification of erection and commissioning actives plans.
- Revising, modification all the hard ware and logic diagram for all loop.
- Site assessment feeds a process automation feasibility study used to develop the process automation modernization plan.
- Install Fire fitting, air conditioning and lighting systems.
- Install and commissioning the UPS system and battery.